

MORARJI DESAI RESIDENTIAL SCHOOL, KANDAGALLU.
KOTTUR (T) VIJAYANAGARA (D)

PROGRAMME OF WORK 2023-24

SUBJECT: SCIENCE

CLASS: 10

| MONTH AND WORKING DAYS | NAME OF THE UNIT / LEARNING COMPETANCIES | PERIODS ALLOTTED | PERIODS ENGAGED | COMPLETED OR NOT COMPLETED | REASON IF NOT COMPLETED | HOMEWORK | | TEACHER'S SIGN | PRINCIPAL SIGN |
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| | | | | | | GIVEN | CORRECTED | | |
| MAY 03 DAYS | ➡ PLANNING AND PREPARATION FOR THE ACADEMIC YEAR 2023-24 | 03 | | | | | | | |
| JUNE 25 DAYS | ➡ Bridge course ➡ Pre-Test ➡ Post – Test ➡ Preparation of Annual Plan | 15 | | | | | | | |
| | CHAPTER 01: CHEMICAL REACTIONS AND EQUATIONS ➡ Chemical equations ➡ Balancing chemical equations ➡ Types of chemical reactions ➡ Oxidation and Reduction ➡ Effects of oxidation in everyday life ➡ Q&A Session and Activities | 10 | | | | | | | |
| JULY 25 DAYS | CHAPTER 12: ELECTRICITY ➡ Electric current and circuit ➡ Electric potential and potential difference ➡ Circuit diagram and Ohm's law ➡ Resistance of a system of resistors ➡ Factors on which resistance depends. | 11 | | | | | | | |

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| | | | | | | GIVEN | CORRECTED | | |
| | <ul style="list-style-type: none">➡ Heating effect of electric current➡ Electric power➡ Q&A Session and Activities | | | | | | | | |
| | CHAPTER 06: LIFE PROCESSES | 09 | | | | | | | |
| | <ul style="list-style-type: none">➡ Meaning of Life processes➡ Nutrition➡ Respiration➡ Transportation➡ Excretion➡ Q&A Session and Activities | | | | | | | | |
| | FORMATIVE ASSESMENT – 02 KREIS COMMON TEST – 01 | | | | | | | | |
| | | 3+2=05 | | | | | | | |
| AUGUST 26 DAYS | CHAPTER 02: ACIDS BASES AND SALTS | 10 | | | | | | | |
| | <ul style="list-style-type: none">➡ Chemical properties of acids and bases➡ Common in all acids and bases➡ pH scale➡ More about salts➡ Q&A Session and Activities | | | | | | | | |
| | CHAPTER 13: MAGNETIC EFFECTS OF ELECTRIC CURRENT | | | | | | | | |
| | <ul style="list-style-type: none">➡ Introduction➡ Magnetic field and field lines➡ Magnetic field due to a current-carrying conductor➡ Force on a current carrying conductor in | 11 | | | | | | | |

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| | <p>a magnetic field</p> <ul style="list-style-type: none">➡ Electric Motor➡ Electromagnetic induction➡ Electric Generator➡ Domestic Electric Circuits➡ Q&A Session and Activities | | | | | | | | |
| | <p>CHAPTER 16: OUR ENVIRONMENT</p> <ul style="list-style-type: none">➡ Eco-system,➡ Environmental problems➡ Ozone depletion➡ Waste production and their solutions.➡ Biodegradable and non-biodegradable substances.➡ Q&A Session and Activities | 05 | | | | | | | |
| SEPTEMBER 24 DAYS | <p>CHAPTER 03: METALS AND NON-METALS</p> <ul style="list-style-type: none">➡ Physical properties of metals➡ Physical properties of non-metals➡ Chemical properties of metals➡ How do metals and non-metals react?➡ Occurrence of metals➡ Corrosion➡ Q&A Session and Activities | 08 | | | | | | | |
| | <p>CHAPTER 07: CONTROL AND COORDINATION</p> <ul style="list-style-type: none">➡ Introduction➡ Animals – Nervous System | 08 | | | | | | | |

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| | <ul style="list-style-type: none"> ☞ Coordination in plants ☞ Hormones in animals ☞ Q&A Session and Activities | | | | | | | | |
| | CHAPTER 05 PERIODIC CLASSIFICATION OF ELEMENTS | 05 | | | | | | | |
| | <ul style="list-style-type: none"> ☞ Early attempts of classification ☞ Mendeleev's periodic table ☞ The modern periodic table | | | | | | | | |
| | FORMATIVE ASSESMENT – 02 | | | | | | | | |
| OCTOBER [02-10-2023 to 07-10-2023] | SUMMATIVE ASSESMENT – 01 OR KREIS COMMON EXAM 01 | 06 | | | | | | | |
| OCTOBER [25-10-2023 to 31-10-2023] | CHAPTER 04: CARBON AND ITS COMPOUNDS | 05 | | | | | | | |
| | <ul style="list-style-type: none"> ☞ Bonding in carbon- The covalent bond ☞ Versatile nature of carbon ☞ Homologous series | | | | | | | | |
| NOVEMBER 23 DAYS | CHAPTER 04: CARBON AND ITS COMPOUNDS [CONTINUED] | 06 | | | | | | | |
| | <ul style="list-style-type: none"> ☞ Nomenclature of carbon compounds ☞ Chemical properties of carbon compounds ☞ Some important carbon compounds ☞ Soaps and Detergents | | | | | | | | |
| | CHAPTER 10: LIGHT – REFLECTION AND REFRACTION | 12 | | | | | | | |
| | <ul style="list-style-type: none"> ☞ Reflection of light by curved surfaces. ☞ Images formed by spherical mirrors | | | | | | | | |

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| | <ul style="list-style-type: none">➔ Refraction and Laws of refraction,➔ Refractive index.➔ Refraction of light by spherical lenses➔ Image formed by spherical lenses.➔ Magnification, Power of a lens | | | | | | | | |
| | CHAPTER 08: HOW DO ORGANISMS REPRODUCE? | 05 | | | | | | | |
| | <ul style="list-style-type: none">➔ DNA replication➔ Modes of asexual reproduction | | | | | | | | |
| DECEMBER 25 DAYS | CHAPTER 08: HOW DO ORGANISMS REPRODUCE? (CONTINUED) | 04 | | | | | | | |
| | <ul style="list-style-type: none">➔ Sexual reproduction in plants➔ Sexual reproduction in animals | | | | | | | | |
| | CHAPTER 11: THE HUMAN EYE AND THE COLOURFUL WORLD | 08 | | | | | | | |
| | <ul style="list-style-type: none">➔ Power of accommodation➔ Defects of vision and their correction➔ Refraction of light through a prism➔ Atmospheric refraction➔ Tyndall effect➔ Why is the colour of the clear Sky Blue?➔ Colour of the Sun at Sunrise and Sunset | | | | | | | | |
| | CHAPTER 09: HEREDITY AND EVOLUTION | | | | | | | | |
| | <ul style="list-style-type: none">➔ Accumulation of variation during reproduction | 08 | | | | | | | |

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| | <ul style="list-style-type: none"> ➔ Rules for the Inheritance of Traits – Mendel's Contributions ➔ Sex Determination ➔ Acquired and Inherited Traits ➔ Speciation ➔ Tracing Evolutionary Relationships ➔ Human Evolution | | | | | | | | |
| | FORMATIVE ASSESMENT – 03 KREIS TEST - 03 | 3+2=05 | | | | | | | |
| JANUARY 24 DAYS | CHAPTER 14: SOURCES OF ENERGY | 05 | | | | | | | |
| | <ul style="list-style-type: none"> ➔ Good source of energy ➔ Conventional sources of energy ➔ Alternative or non-conventional sources of energy ➔ Environmental consequences ➔ How long will an energy source last us? | | | | | | | | |
| | CHAPTER 16: SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES | 05 | | | | | | | |
| | <ul style="list-style-type: none"> ➔ Methods of conservation ➔ Need to manage our natural resources ➔ Forests and wildlife ➔ Water for all ➔ Coal and petroleum ➔ An overview of natural resource management | | | | | | | | |

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| | FORMATIVE ASSESMENT – 04 | 03+02=05 | | | | | | | |
| | KREIS COMMON TEST – 04 | | | | | | | | |
| | ➡ Revision of part 01 Chapters | 09 | | | | | | | |
| FEBRUARY 23 DAYS | ➡ Revision of part 02 Chapters. ➡ School level preparatory and KREIS preparatory. | 15 | | | | | | | |
| MARCH 26 DAYS | ➡ Revision ➡ State level Preparatory exam ➡ Annual Examination | 26 | | | | | | | |
| APRIL 09 DAYS | ➡ Annual Examination | 09 | | | | | | | |

Signature of Science Teacher

Signature of Principal